



03/10/11

Technical Report for

GEI Consultants, Inc.

Canton Airport Canton MA

09382-2

Accutest Job Number: M91909R

Sampling Date: 06/02/10

Report to:

GEI Consultants, Inc.

LLombardo@geiconsultants.com

ATTN: Leslie Lombardo

Total number of pages in report: 20



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Pand
Reza Pand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

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Sample Summary

GEI Consultants, Inc.

Job No: M91909R

Canton Airport Canton MA
Project No: 09382-2

Sample Number	Collected		Time By	Received	Matrix		Client Sample ID
	Date				Code	Type	
M91909-28R	06/02/10	09:11	SSH	06/03/10	SO	Soil	093822-B213(0.5-2)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: GEI Consultants, Inc.

Job No M91909R

Site: Canton Airport Canton MA

Report Date 8/11/2010 11:49:15 AM

1 Sample(s) were collected on 06/02/2010 and were received at Accutest on 06/03/2010 properly preserved, at 2.5 Deg. C and intact. These Samples received an Accutest job number of M91909R. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method SW846 8082

Matrix SO

Batch ID: OP22182

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M93301-7MS, M93301-7MSD were used as the QC samples indicated.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M91909R).

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

Client Sample ID:	093822-B213(0.5-2)	Date Sampled:	06/02/10
Lab Sample ID:	M91909-28R	Date Received:	06/03/10
Matrix:	SO - Soil	Percent Solids:	92.2
Method:	SW846 8082 SW846 3540C		
Project:	Canton Airport Canton MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ59051.D	1	08/05/10	CZ	08/03/10	OP22182	GYZ2518
Run #2	YZ59060.D	5	08/05/10	CZ	08/03/10	OP22182	GYZ2519

Run #	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2	15.0 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	110	ug/kg	
11104-28-2	Aroclor 1221	ND	110	ug/kg	
11141-16-5	Aroclor 1232	ND	110	ug/kg	
53469-21-9	Aroclor 1242	ND	110	ug/kg	
12672-29-6	Aroclor 1248	ND	110	ug/kg	
11097-69-1	Aroclor 1254	ND	110	ug/kg	
11096-82-5	Aroclor 1260	1290 ^a	540	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%	90%	30-150%
877-09-8	Tetrachloro-m-xylene	85%	88%	30-150%
2051-24-3	Decachlorobiphenyl	70%	85%	30-150%
2051-24-3	Decachlorobiphenyl	75%	90%	30-150%

(a) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range


J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms


Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle


Chain-of-Custody Record		Laboratory: Accutest		Laboratory Job # M91909R																
 <p>GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073</p>		Project Information																		
		Project Name: Canton Airport		Project Location: Canton, MA																
		Project Number: 09382-2		Project Manager: Anne Leifer																
		Send Report to: Ray Siegner		Preservative																
Send EDD to: labdata@geiconsultants.com		None		Sample Handling Samples Field Filtered YES <input type="radio"/> NO <input type="radio"/> NA <input type="radio"/> Sampled Shipped With Ice YES <input type="radio"/> NO <input type="radio"/>																
MCP PRESUMPTIVE CERTAINTY REQUIRED - YES <input checked="" type="radio"/> NO <input type="radio"/> If Yes, Are MCP Analytical Methods Required? YES <input type="radio"/> NO <input type="radio"/> NA <input type="radio"/> If Yes, Are Drinking Water Samples Submitted? YES <input type="radio"/> NO <input checked="" type="radio"/> NA <input type="radio"/> If Yes, Have You Met Minimum Field QC Requirements? YES <input type="radio"/> NO <input type="radio"/> NA <input type="radio"/>		Analysis None																		
						Analysis														
PCBs by manual soxlet extraction		Analysis		Sample Specific Remarks																
Lab Sample Number	GEI Sample ID	Date	Time	Matrix	No. of Bottles	Sample(s) in Bottle	PCBs by manual soxlet extraction													
-1	093822-0201(1-3)	6/2/2010	1201	SO	1	SSH	x													
-2	093822-0201(3-5)		1202	SO	1		x													
-3	093822-0202(1-3)		1240	SO	1		x													
-4	093822-0202(4-5)		1242	SO	1		x													
-5	093822-0203(4-5)		1321	SO	1		x													
-6	093822-0204(1-3)		1402	SO	1		x													
-7	093822-0205(1-3)		1511	SO	1		x													
-8	093822-0205(4-5)		1512	SO	1		x													
-9	093822-0206(1-3)		1459	SO	1		x													
-10	093822-0206(4-5)		1500	SO	1		x													
-11	093822-0207(1-3)		1451	SO	1		x													
-12	093822-0207(4-5)		1452	SO	1		x													
MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.							Turnaround Time (Business days): Normal <input checked="" type="checkbox"/> 10-Day <input type="checkbox"/> 5-Day <input type="checkbox"/> Other <input type="checkbox"/> 7-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>		Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.											
Relinquished by (signature)		Date	Time	Received by (signature)		Additional Requirements/Comments/Remarks: MANUAL SOXLET EXTRACTION REQUIRED. DCR RATES APPLY. CAUTION- POTENTIAL ELEVATED PCBS.														
1. <i>[Signature]</i>		6/2/10	2000	1. GEI Sample Fridge																
2. GEI Fridge		6/3/10	1245	2. Manna MacLeod																
3. Manna MacLeod		6/3/10	1245	3. will do it																
4. will do it		6/3/10	1450	4. will do it																

M91909R: Chain of Custody
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Chain-of-Custody Record		Laboratory: Accutest		Laboratory Job # 1791909												
 <p>GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073</p>		Project Information														
		Project Name: Canton Airport		Project Location: Canton, MA		Page 2 of 4										
		Project Number: 09382-2		Project Manager: Anne Leifer												
		Send Report to: Ray Slegener		Preservative												
Send EDD to: labdata@geiconsultants.com		None		Analysis												
MCP PRESUMPTIVE CERTAINTY REQUIRED - YES NO If Yes, Are MCP Analytical Methods Required? YES NO NA If Yes, Are Drinking Water Samples Submitted? YES NO NA If Yes, Have You Met Minimum Field QC Requirements? YES NO NA		PCBs by manual soxlet extraction		Samples Field Filtered YES NO NA Sampled Shipped With Ice YES NO												
Sample Specific Remarks																
Lab Sample Number	GEI Sample ID	Collection Date	Time	Matrix	No. of Bottles	Sampler(s) Initials										
-13	093822- B208(0-2)	6/2/10	1441	SO	1	SSH	x									
-14	093822- B208(4-5)		1442	SO	1		x									
-15	093822- B209(0-1)		1105	SO	1		x									
-16	093822- B209(1-2)		1106	SO	1		x									
-17	093822- B209(4-5)		1107	SO	1		x									
-18	093822- B210(0-1)		1130	SO	1		x									
-19	093822- B210(1-2)		1131	SO	1		x									
-20	093822- B210(4-5)		1132	SO	1		x									
-21	093822- B211(0-1)		1035	SO	1		x									
-22	093822- B211(1-2)		1036	SO	1		x									
-23	093822- B211(3-5)		1037	SO	1		x									
-24	093822- B212(0-1)		1010	SO	1		x									
MCP Level Needed: GEI requires the most stringent Method 1. MCP standard be met for all analytes whenever possible.							Turnaround Time (Business days): Normal <input checked="" type="checkbox"/> Other _____ 10-Day _____ 7-Day _____ 5-Day _____ 3-Day _____		Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.							
Relinquished by (signature)		Date	Time	Received by (signature)			Additional Requirements/Comments/Remarks: MANUAL SOXLET EXTRACTION REQUIRED. DCR RATES APPLY. CAUTION- POTENTIAL ELEVATED PCBs.									
1. [Signature]		6/2/10	2000	1. GEI Sample Fridge												
2. GEI Fridge		6/3/10	1245	2. Maura MacLeod												
3. Maura MacLeod		6/7/10	1245	3. with ACH												
4. [Signature]		6/3/10	1450	4. with ACH												


6/1/2010
V:\093820-Canton Airport\Canton COC 6-1-10.xls

M91909R: Chain of Custody
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Chain-of-Custody Record				Laboratory: <u>Accutest</u>		Laboratory Job # <u>M91909</u> <small>(Lab use only)</small>																																																																																										
 GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073		Project Information				Page 3 of 4 Sample Handling Samples Field Filtered YES <input type="radio"/> NO <input type="radio"/> NA <input type="radio"/> Sampled Shipped With Ice YES <input type="radio"/> NO <input type="radio"/>																																																																																										
		Project Name: <u>Canton Airport</u>		Project Location: <u>Canton, MA</u>																																																																																												
		Project Number: <u>09382-2</u>		Project Manager: <u>Anne Leifer</u>																																																																																												
		Send Report to: <u>Ray Siegner</u>		Preservative: <u>None</u>																																																																																												
Send EDD to: <u>labdata@geiconsultants.com</u>		Analysis: <u>None</u>		PCBs by manual soxlet extraction		Sample Specific Remarks																																																																																										
MCP PRESUMPTIVE CERTAINTY REQUIRED -- YES <input checked="" type="radio"/> NO <input type="radio"/>																																																																																																
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Lab Sample Number</th> <th rowspan="2">GEI Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Matrix</th> <th rowspan="2">No. of Bottles</th> <th rowspan="2">Sampler's Initials</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr><td>-25 ✓</td><td>093822-8212(1-3)</td><td>6/2/2010</td><td>1011</td><td>SO</td><td>1</td><td>SSH</td></tr> <tr><td>-26 ✓</td><td>093822-8212(3-4)</td><td></td><td>1012</td><td>SO</td><td>1</td><td></td></tr> <tr><td>-27 ✓</td><td>093822-8213(0-5)</td><td></td><td>0910</td><td>SO</td><td>1</td><td></td></tr> <tr><td>-28 ✓</td><td>093822-8213(0.5-2)</td><td></td><td>0911</td><td>SO</td><td>1</td><td></td></tr> <tr><td>-29 ✓</td><td>093822-8213(3-5)</td><td></td><td>0912</td><td>SO</td><td>1</td><td></td></tr> <tr><td>-30 ✓</td><td>093822-8214(0-1)</td><td></td><td>0935</td><td>SO</td><td>1</td><td></td></tr> <tr><td>-31 ✓</td><td>093822-8214(1-3)</td><td></td><td>0936</td><td>SO</td><td>1</td><td></td></tr> <tr><td>-32 ✓</td><td>093822-8214(4-5)</td><td></td><td>0937</td><td>SO</td><td>1</td><td></td></tr> <tr><td>-33 ✓</td><td>093822-8215(0-1)</td><td></td><td>0830</td><td>SO</td><td>1</td><td></td></tr> <tr><td>-34 ✓</td><td>093822-8215(1-5)</td><td></td><td>0831</td><td>SO</td><td>1</td><td></td></tr> <tr><td>-35 ✓</td><td>093822-8215(3-5)</td><td></td><td>0832</td><td>SO</td><td>1</td><td></td></tr> <tr><td>-36 ✓</td><td>093822-8216(0-1)</td><td></td><td>0755</td><td>SO</td><td>1</td><td></td></tr> </tbody> </table>								Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler's Initials	Date	Time	-25 ✓	093822-8212(1-3)	6/2/2010	1011	SO	1	SSH	-26 ✓	093822-8212(3-4)		1012	SO	1		-27 ✓	093822-8213(0-5)		0910	SO	1		-28 ✓	093822-8213(0.5-2)		0911	SO	1		-29 ✓	093822-8213(3-5)		0912	SO	1		-30 ✓	093822-8214(0-1)		0935	SO	1		-31 ✓	093822-8214(1-3)		0936	SO	1		-32 ✓	093822-8214(4-5)		0937	SO	1		-33 ✓	093822-8215(0-1)		0830	SO	1		-34 ✓	093822-8215(1-5)		0831	SO	1		-35 ✓	093822-8215(3-5)		0832	SO	1		-36 ✓	093822-8216(0-1)	
Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler's Initials																																																																																										
		Date	Time																																																																																													
-25 ✓	093822-8212(1-3)	6/2/2010	1011	SO	1	SSH																																																																																										
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-36 ✓	093822-8216(0-1)		0755	SO	1																																																																																											
MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.				Turnaround Time (Business days): Normal <input checked="" type="checkbox"/> Other <input type="checkbox"/> 10-Day <input type="checkbox"/> 7-Day <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>		Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.																																																																																										
Relinquished by (signature): <u>[Signature]</u> Date: <u>6/2/10</u> Time: <u>2000</u>		Received by (signature): <u>1. GEI Sample Fridge</u>																																																																																														
Relinquished by (signature): <u>2. GEI Fridge</u> Date: <u>6/3/10</u> Time: <u>1245</u>		Received by (signature): <u>2. Maureen MacLeod</u>		Additional Requirements/Comments/Remarks:																																																																																												
Relinquished by (signature): <u>3. Maureen MacLeod</u> Date: <u>6/3/10</u> Time: <u>1245</u>		Received by (signature): <u>3. with anal</u>																																																																																														
Relinquished by (signature): <u>4. Will Hall</u> Date: <u>6/3/10</u> Time: <u>1400</u>		Received by (signature): <u>4. Will Hall</u>		MANUAL SOXLET EXTRACTION REQUIRED. DCR RATES APPLY. CAUTION- POTENTIAL ELEVATED PCBS.																																																																																												

M91909R: Chain of Custody

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Chain-of-Custody Record		Laboratory: <u>Accutest</u>		Laboratory Job # <u>M91909</u>															
 GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073		Project Information																	
		Project Name: <u>Canton Airport</u>		Project Location: <u>Canton, MA</u>															
		Project Number: <u>09382-2</u>		Project Manager: <u>Anne Leifer</u>															
		Send Report to: <u>Ray Siegner</u>		Preservative: <u>None</u>															
Send EDD to: <u>labdata@geiconsultants.com</u>		Analysis: <u>None</u>		Sample Handling Samples Field Filtered YES <input type="radio"/> NO <input checked="" type="radio"/> NA <input type="radio"/> Sampled Shipped With Ice YES <input type="radio"/> NO <input checked="" type="radio"/> Sample Specific Remarks:															
MCP PRESUMPTIVE CERTAINTY REQUIRED - YES <input checked="" type="radio"/> NO <input type="radio"/>		PCBs by manual soxlet extraction																	
If Yes, Are MCP Analytical Methods Required? YES <input checked="" type="radio"/> NO <input type="radio"/> NA <input type="radio"/>																			
If Yes, Are Drinking Water Samples Submitted? YES <input checked="" type="radio"/> NO <input type="radio"/> NA <input type="radio"/>																			
If Yes, Have You Met Minimum Field QC Requirements? YES <input checked="" type="radio"/> NO <input type="radio"/> NA <input type="radio"/>																			
Lab Sample Number	GEI Sample ID	Date	Time	Matrix	No. of Bottles	Number of Initiates													
-37	✓ 093822-8216(1-2)	6/2/10	0756	SO	1	SSH	x												
-38	✓ 093822-8216(3-5)	↓	0757	SO	1	↓	x												
-39	✓ 093822-8900-S1	↓	0700	SO	1	↓	x												
-40	✓ 093822-8900-S2	↓	0701	SO	1	↓	x												
-41	✓ 093822-8900-S3	↓	0702	SO	1	↓	x												
	093822-			SO	1		x												
	093822-			SO	1		x												
	093822-			SO	1		x												
	093822-			SO	1		x												
	093822-			SO	1		x												
	093822-			SO	1		x												
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Relinquished by (signature)	Date	Time	Received by (signature)				Normal <input checked="" type="checkbox"/> Other <input type="checkbox"/>												
1. <u>[Signature]</u>	6/2/10	2000	1. <u>GEI Sample Midge</u>				10-Day <input type="checkbox"/> 7-Day <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>												
Relinquished by (signature)	Date	Time	Received by (signature)				Additional Requirements/Comments/Remarks:												
2. <u>GEI Midge</u>	6/3/10	1245	2. <u>Maura MacLeod</u>																
Relinquished by (signature)	Date	Time	Received by (signature)																
3. <u>Maura MacLeod</u>	6/3/10	1245	3. <u>Will Dell</u>																
Relinquished by (signature)	Date	Time	Received by (signature)				MANUAL SOXLET EXTRACTION REQUIRED.												
4. <u>Will Dell</u>	6/2/10	1450	4. <u>Will Dell</u>				PCR RATES APPLY.												
							CAUTION- POTENTIAL ELEVATED PCBs.												

M91909R: Chain of Custody
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Tyana Nguyen

From: Mark Warren
Sent: Monday, August 02, 2010 3:41 PM
To: Tyana Nguyen
Subject: FW: Comparability Study

Hi Tyana,

Would you enter these re-log projects for me? You can use an "R" job or "T" job as some of these projects already have "R" jobs. Thanks,

Mark Warren
 Accutest Laboratories of NE
 Voice: 508.481.6200 Ext. 247
 Fax: 508.481.7753
markw@accutest.com

Accutest - "The national Testing Laboratory with Total Performance you can count on"

From: Mark Warren
Sent: Monday, August 02, 2010 2:19 PM
To: Kristen Blanchard
Subject: FW: Comparability Study

Kristen,

I need to talk to you briefly about this. Thanks,

Mark Warren
 Accutest Laboratories of NE
 Voice: 508.481.6200 Ext. 247
 Fax: 508.481.7753
markw@accutest.com

Accutest - "The national Testing Laboratory with Total Performance you can count on"

From: Siegner, Ray [mailto:RSiegner@geiconsultants.com]
Sent: Wednesday, July 28, 2010 3:45 PM
To: Mark Warren; Frank D'Agostino; Reza Tand
Cc: Haley, Heather; Oosting, Saskia; Lelifer, Anne
Subject: Comparability Study

Hi Mark-

As we discussed, we still need to perform some additional work to get this comparability study completed. The table below has two sections - the top contains two samples that were close to the 1 ppm standard when analyzed initially. We would like you to reextract (using Method 3540C) and reanalyze these samples with no dilution to see if we get results within the windows we need to hit (0.90 ppm - 1.0 ppm or 1.0 ppm - 1.10 ppm).

For the second set of 4 samples, we have included the initial result and the recommended dilution we would like you to perform, prior to extraction, to obtain sample results within the ranges listed above. As we discussed,

8/2/2010

M91909R: Chain of Custody

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you can use clean sand to dilute these samples prior to extraction by Method 3540C – please prepare enough of the diluted samples so there is material remaining for extraction using Method 3545; if we are successful. We will need to review the results before proceeding with Method 3545 extractions.

We will need results by August 12 for the Method 3540C samples (2-week TAT). Please give me a call if you have any questions.

Accutest ID	GEI ID	Initial Conc. (PPM)	Dilution	Matrix	Sample Date	Sample Depth (in.)
M91579-102	HS-AT.5-8	1.23	NA	Sand	5/20/2010	0-6
M91909-28	B213(0.5-2)	1.33	NA	Sand	6/2/2010	6-24
M91579-62	HS-AI-10.5	12.7	13X	Sand	5/20/2010	0-6
M91081-9	CS-RWA104	2.4	2.5X	Sand	4/30/2010	6
M91651-111	HS-BD5.6	3.4	3.5X	Sand	5/24/2010	0-6
M91651-112	HS-BD5.7	3.4	3.5X	Sand	5/25/2010	0-6

Regards,
Ray

Raymond Siegenger, Ph.D.
Project Environmental Scientist
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Woburn, MA 01801
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Cell: 339-227-3342
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8/2/2010



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

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Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name: Accutest Laboratories of New England

Project #: M91909R

Project Location: Canton Airport Canton MA

MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
M91909-28R

Matrices: Groundwater/Surface Water () Soil/Sediment (X) Drinking Water () Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB (X) CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.				
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Reza Tand

Position: Laboratory Director

Printed Name: Reza Tand

Date: 08/11/2010

Internal Sample Tracking Chronicle

GEI Consultants, Inc.

Job No: M91909R

Canton Airport Canton MA
Project No: 09382-2

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91909-28RCollected: 02-JUN-10 09:11 By: SSH Received: 03-JUN-10 By: JB 093822-B213(0.5-2)						
M91909-28RSW846 8082		05-AUG-10 01:01	CZ	03-AUG-10 BJ		P8082SOXHLET
M91909-28RSW846 8082		05-AUG-10 14:09	CZ	03-AUG-10 BJ		P8082SOXHLET

GC Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M91909R
Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22182-MB	YZ59029.D	1	08/04/10	CZ	08/03/10	OP22182	GYZ2518

The QC reported here applies to the following samples:

Method: SW846 8082

M91909-28R

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	98	ug/kg	
11104-28-2	Aroclor 1221	ND	98	ug/kg	
11141-16-5	Aroclor 1232	ND	98	ug/kg	
53469-21-9	Aroclor 1242	ND	98	ug/kg	
12672-29-6	Aroclor 1248	ND	98	ug/kg	
11097-69-1	Aroclor 1254	ND	98	ug/kg	
11096-82-5	Aroclor 1260	ND	98	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	100% 30-150%
877-09-8	Tetrachloro-m-xylene	103% 30-150%
2051-24-3	Decachlorobiphenyl	102% 30-150%
2051-24-3	Decachlorobiphenyl	101% 30-150%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M91909R

Account: GEI GEI Consultants, Inc.

Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22182-BS	YZ59030.D	1	08/04/10	CZ	08/03/10	OP22182	GYZ2518
OP22182-BSD	YZ59064.D	1	08/05/10	CZ	08/03/10	OP22182	GYZ2519

The QC reported here applies to the following samples:

Method: SW846 8082

M91909-28R

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	261	282	108	281	110	0	40-140/30
11104-28-2	Aroclor 1221		ND		ND		nc	40-140/30
11141-16-5	Aroclor 1232		ND		ND		nc	40-140/30
53469-21-9	Aroclor 1242		ND		ND		nc	40-140/30
12672-29-6	Aroclor 1248		ND		ND		nc	40-140/30
11097-69-1	Aroclor 1254		ND		ND		nc	40-140/30
11096-82-5	Aroclor 1260	261	277	106	266	104	4	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	102%	105%	30-150%
877-09-8	Tetrachloro-m-xylene	102%	103%	30-150%
2051-24-3	Decachlorobiphenyl	106%	93%	30-150%
2051-24-3	Decachlorobiphenyl	105%	100%	30-150%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M91909R
Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22182-MS	YZ59032.D	1	08/04/10	CZ	08/03/10	OP22182	GYZ2518
OP22182-MSD	YZ59033.D	1	08/04/10	CZ	08/03/10	OP22182	GYZ2518
M93301-7	YZ59043.D	1	08/04/10	CZ	08/03/10	OP22182	GYZ2518

The QC reported here applies to the following samples:

Method: SW846 8082

M91909-28R

CAS No.	Compound	M93301-7	Spike	MS	MS	MSD	MSD	RPD	Limits
		ug/kg	Q	ug/kg	%	ug/kg	%		Rec/RPD
12674-11-2	Aroclor 1016	ND	299	320	107	261	88	20	40-140/50
11104-28-2	Aroclor 1221	ND		ND		ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND		ND		ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND		ND		ND		nc	40-140/50
12672-29-6	Aroclor 1248	ND		ND		ND		nc	40-140/50
11097-69-1	Aroclor 1254	93.7		170		114		39	40-140/50
11096-82-5	Aroclor 1260	ND	299	296	99	209	70	34	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	M93301-7	Limits
877-09-8	Tetrachloro-m-xylene	104%	76%	108%	30-150%
877-09-8	Tetrachloro-m-xylene	107%	79%	113%	30-150%
2051-24-3	Decachlorobiphenyl	99%	73%	83%	30-150%
2051-24-3	Decachlorobiphenyl	91%	65%	76%	30-150%

Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M91909R

Account: GEI GEI Consultants, Inc.

Project: Canton Airport Canton MA

Method: SW846 8082

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
M91909-28R	YZ59060.D	90.0	88.0	85.0	90.0
M91909-28R	YZ59051.D	90.0	85.0	70.0	75.0
OP22182-BS	YZ59030.D	102.0	102.0	106.0	105.0
OP22182-BSD	YZ59064.D	105.0	103.0	93.0	100.0
OP22182-MB	YZ59029.D	100.0	103.0	102.0	101.0
OP22182-MS	YZ59032.D	104.0	107.0	99.0	91.0
OP22182-MSD	YZ59033.D	76.0	79.0	73.0	65.0

Surrogate
Compounds

Recovery
Limits

S1 = Tetrachloro-m-xylene

30-150%

S2 = Decachlorobiphenyl

30-150%

(a) Recovery from GC signal #1

(b) Recovery from GC signal #2

5.4.1

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